

PN W09484417-A1.
 XX 08-OCT-1998.
 PD 27-MAR-1998: 98W0-0506115
 XX 09-MAY-1997: 9705-0046083.
 PR 28-MAY-1997: 9705-0042852.
 XX (GMO) CYMCHUNTES INC.
 PA Shepherd PO.
 PI WPI: 1998-557114/17.
 DR N-PSDB: AAV45444.
 XX Key human chemokine ESTs of a transient inflammatory
 PT disease, lymphocyte migration and ischaemia/reperfusion injury
 PS Claim 1: Page 80-81; 105pp; English.
 CC This is the amino acid sequence of a novel human chemokine,
 CC designated ZS1G-35, that has homology to members of the
 CC beta-chemokine family, in particular to murine macrophage
 CC inflammatory protein (25.89 kDa). It includes a 4-Cys
 CC motif (residues 36, 37, 58 and 75) that is characteristic of
 CC beta-chemokines. The invention provides ZS1G-35 polypeptides
 CC and polynucleotides, an expression vector, a cultured cell carrying
 CC the vector, a method of producing the protein, a specific antibody,
 CC a binding protein, and a pharmaceutical composition comprising for
 CC the regulation of acute and chronic inflammatory disease conditions,
 CC lymphocyte migration and ischaemia/reperfusion injury
 XX Sequence 150 AA.
 SQ
 Query Match 98.7% Score 783 DB 19 Length 150;
 Best local Similarity 98.7% Pred No 30-85;
 Matches 148; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1 MRLMLACLVAGFLGMAPAVHTGGVFEPCCLAYHPITGMALPRAVTPGIVGSSNL 60
 DB 1 MRLMLACLVAGFLGMAPAVHTGGVFEPCCLAYHPITGMALPRAVTPGIVGSSNL 60
 QY 61 PAATVYLFPRFHVCGGRRFVGVGMKILPANKVPAKIHMMQVFOAGHVAKKLSG 120
 DB 61 PAATVYLFPRFHVCGGRRFVGVGMKILPANKVPAKIHMMQVFOAGHVAKKLSG 120
 QY 121 NSKLSSEKFNPTSSSKRNVSLLISANSGL 150
 DB 121 NSKLSSEKFNPTSSSKRNVSLLISANSGL 150
 RESULT 4
 ID AAV21844 standard; protein; 150 AA.
 AC AAV21844.
 XX 20-SEP-1996 (first entry)
 XX Human signal peptide containing protein (SIGP) (clone ID 1634813).
 XX Signal peptide containing protein: SIGP; human; cancer; immune response;
 XX adenocarcinoma; leukemia; lymphoma; melanoma; myeloma; sarcoma; AIDS;
 XX Addison's disease; adult respiratory distress syndrome; allergy; anemia;
 XX asthma; atherosclerosis; bronchitis; cholecystitis; Crohn's disease;
 XX ulcerative colitis; atopic dermatitis; dermatomyositis; emphysema;
 XX diabetes mellitus; atrophic gastritis; glomerulonephritis; gout; trauma;
 XX Graves' disease; hypereosinophilia; irritable bowel syndrome; infection;
 XX lupus erythematosus; multiple sclerosis; psoriasis; polyarthritis; inflammation;
 XX osteoarthritis; osteoporosis; pancreatitis; polymyositis; scleroderma;

XX rheumatoid arthritis; Sjogren's syndrome; autoimmune thyroiditis.
 OS Homo sapiens.
 PN W09433981-A2.
 XX 08-JUL-1999.
 PD 42-DEC-1998: 98W0 0027598.
 XX 41-DEC-1997: 97W0 0002485.
 XX (INCYTE) INCYTE PHARM INC.
 PA Haughin MR, Corley NC, Coughler KJ, Hillman JL, Lal P;
 PI Sather SK, Shah P;
 XX WPI: 1997-4-04-30.
 DR N-PSDB: AAV22078.
 XX Human signal-peptide containing protein coding sequences used to
 PT treat cancer and immune responses
 PS Claim 1: Page 78-79; 99pp; English.
 CC The invention provides human signal-peptide containing proteins (SIGP)
 CC (AAV21841-855) and polynucleotides (AAV21876-90) encoding the proteins.
 CC A host cell containing a vector comprising SIGP DNA can be used to
 CC produce the SIGP protein. The SIGP protein can be used, in conjunction
 CC with a pharmaceutical carrier, to treat or prevent a cancer or an
 CC immune response. The cancers that can be treated or prevented include
 CC leukemia, adenocarcinoma, lymphoma, melanoma, myeloma, sarcoma,
 CC testis, thymus, thyroid, and uterus. The immune responses that can be
 CC treated or prevented include AIDS, Addison's disease, adult respiratory
 CC distress syndrome, allergy, anemia, Crohn's disease, ulcerative colitis, atopic
 CC dermatitis, cholecystitis, diabetes mellitus, emphysema, atrophic
 CC gastritis, glomerulonephritis, gout, trauma, Graves' disease, hypereosinophilia,
 CC irritable bowel syndrome, lupus erythematosus, multiple sclerosis,
 CC myasthenia gravis, osteoporosis, pancreatitis, polymyositis, rheumatoid
 CC arthritis, scleroderma, Sjogren's syndrome, and autoimmune thyroiditis,
 CC complications of cancer, infections, and trauma.
 XX Sequence 150 AA:
 SQ
 Query Match 97.6% Score 777 DB 20 Length 150;
 Best local Similarity 97.6% Pred No 30-85;
 Matches 147; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 1 MRLMLACLVAGFLGMAPAVHTGGVFEPCCLAYHPITGMALPRAVTPGIVGSSNL 60
 DB 1 MRLMLACLVAGFLGMAPAVHTGGVFEPCCLAYHPITGMALPRAVTPGIVGSSNL 60
 QY 61 PAATVYLFPRFHVCGGRRFVGVGMKILPANKVPAKIHMMQVFOAGHVAKKLSG 120
 DB 61 PAATVYLFPRFHVCGGRRFVGVGMKILPANKVPAKIHMMQVFOAGHVAKKLSG 120
 QY 121 NSKLSSEKFNPTSSSKRNVSLLISANSGL 150
 DB 121 NSKLSSEKFNPTSSSKRNVSLLISANSGL 150
 RESULT 5
 ID AAV41938 standard; protein; 149 AA.
 AC AAV41938.

human CD44 15 protein.

AA Sequence 149 AA:

Query Match

blast Local Similarity 98.7% Ident 100.0% Length 149

Mutations 148 Conservation 0% Mismatches 1 Mismatches 1 Gaps 1:

61 MRLMLAIVAVATGAAVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60
1 MRLMLAIVAVATGAAVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 FVAATFTEATREKREK*EAEKELV*EAMEL*AKGVVAV*GIRE*LA*AGVATL* 129
1 FVAATFTEATREKREK*EAEKELV*EAMEL*AKGVVAV*GIRE*LA*AGVATL* 129

140 NSKLSS*EKESK*EISSEKPSVSL*EANSCL 139
1 NSKLSS*EKESK*EISSEKPSVSL*EANSCL 139

PEP001 9

AA020024

10 AA020024 standard: Protein: 127 AA.

AA020024:

11 100 2002 (first entry)

Human chemokine TECK protein.

Human chemokine and HIV and lentivirus and epithelial and hematopoietic and liver precursor for dermatological and inflammatory and leukocyte

immunoregulatory polypeptide modified bioactive synthetic chemokine HIV

ATLAS: asinine epithelial thymic atrophic dermatitis rheumatoid arthritis

atrophic atrophic dermatitis organ transplant rejection TECK.

Human capons.

W0200204015 A1

17 JAN 2002.

12 JUL 2001: 2001W020204015

12 JUL 2000: 2000W020204015

(GRTY) GRYPON SCL.

Kochendorfer C, Böttel E, Bradburne JA, Chen S, Crossman S:

W01: 2002 2008/7/11.

New polymer modified bioactive synthetic chemokines used in the

treatment of various diseases or disorders e.g. asthma

Discovered: Fig 109: 179pp: English.

The invention relates to polymer modified bioactive synthetic chemokines

and to methods for their production and use. The compounds and methods of

the backbone of the invention are useful in the analysis and treatment of

various diseases states e.g. HIV and AIDS related disorders, asthma,

atrophic thymic atrophic dermatitis, atrophic/atrophic dermatitis, organ

transplant rejection, and hematological disorders. This sequence represents

the human chemokine TECK protein of the invention.

Sequence 127 AA:

Query Match 98.9% Score 6081 ID: 245 Length 127

blast Local Similarity 100.0% Ident 100.0% Length 127

Mutations 127 Conservation 0% Mismatches 0 Indels 0 Gaps 0:

24 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

1 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

61 GVFHGVVAVHGVVAVHGVVTEK*LAATRTGAVLAKAVYTRGVDSGSL 60

Search completed. May 7, 2003, 10:36:47
 Job time : 37 secs

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XX 20-OCT-2000 (first entry)
DE Murine secondary lymphoid chemokine (SLC).
XX
XX Secondary lymphoid chemokine; SLC; cancer;
XX hyperproliferative disorders; prostatic hyperplasia;
XX proliferative breast disease; proliferative retinopathy;
XX melanoma; breast cancer; cancer; metastases; suppression;
XX angiogenesis; tumorigenesis; inflammation; immune response;
XX chemotaxis; graft rejection; autoimmune disease; mouse.
XX
XX Mus musculus.
XX
XX W0200038706-A2.
XX
XX 06-JUL-2000.
XX
XX 28-DEC-1996; 99W0-0831096.
XX
XX 21-DEC-1998; 98W0-0114498.
XX
XX (CHIR ) CHIRON CORP.
XX
XX Keting C, Xin H, Chan WPF, Kothakota S, Williams LT, Winter JA;
XX
XX MPI: 2000-465631/40.
XX
XX N-PSDB: AAA47496.
XX
XX treating cancer or hyperproliferative disorder and modulating dendritic
XX cell function in a mammal involves administering secondary lymphoid
XX chemokine to the mammal
XX
XX Claim 12: Fig 2: 53pp: English.
XX
XX
XX Secondary lymphoid chemokines (SLC's), variants, fragments, and the
XX polynucleotides encoding the chemokines, variants and fragments,
XX anti-SLC antibodies or ligands for the CCR7 receptor can be used to
XX modulate dendritic cell function in a mammal which results in a
XX decreased primary immune response. SLC can be used to treat cancer or
XX hyperproliferative disorders such as prostatic hyperplasia,
XX proliferative breast diseases, proliferative retinopathy or
XX skin lesions. SLC is also useful for treating solid tumours such as
XX melanoma, breast cancer, tumours of the head and neck, cancers or
XX metastases of ovary, endometrium, urinary tract, stomach, testicle,
XX prostate, lung, bladder, pancreas, bone, liver, colon or rectum, or
XX metastases of unknown primary origin. SLC can also be used to
XX suppress angiogenesis particularly angiogenesis involved in cancer,
XX tumorigenesis, metastases and tumour growth, and for mediating
XX recruitment of leukocytes into sites of inflammation and immune
XX response, particularly the chemokines of dendritic and other cells.
XX SLC is also useful in preventing graft rejection, prevention and
XX treatment of the autoimmune diseases and for enhancing an immune
XX response.
XX
XX Sequence 133 AA:

```

```

Query Match 14.8%; Score 117.5; DB 21; Length 133;
Best Local Similarity: 29.7%; Pred No 5; 9e-06;
Matches 41; Conservative 22; Mismatch 52; Indels 23; Gaps 8;

QY 1 MNWIIAGLVAGPLGAVPAVHTGCVFEDCLAV-HYIGWAVLKRAWITRTDEVSGSN 59
DB 10 LSLDLALCI-----PWTGQ--SDQGDGDCDLKYSQKRIYSIVR--GYRKEPSIGCP 58

QY 60 LFAA:FLYFNHKK-VCCNHRSEFYVGFAPRTIT-APPVVFAKIUNHMTFOAGPHAV 114
DB 59 IF-ALFENRKHAKTDLCAHTECWONLMRIRIDQPARPKQSTGCFKFNSTGSG----- 113

QY 115 KRISGNSRTSSSFSSNP 132
DB 114 -KKGSGSKGCKRLEGTOP 130

```


RESULT 2

US-09-844-799A-20

Sequence 20, Application US/0904799A

Patent No. US2002006710A1

GENERAL INFORMATION:

APPLICANT: Laidlaw, David

APPLICANT: Laidlaw, David

TITLE OF INVENTION: Method for Identifying Agents Which

FILE REFERENCE: 600/211,112, 602, and Treatment of Breast Cancer

CURRENT APPLICATION NUMBER: US/09/799A-799A

CURRENT FILING DATE: 2001-04-12

PRIOR APPLICATION NUMBER: 09/146,500

PRIOR FILING DATE: 1998-09-04

PRIOR APPLICATION NUMBER: 605/11,677

PRIOR FILING DATE: 1998-01-20

PRIOR APPLICATION NUMBER: 602/092,155

PRIOR FILING DATE: 1998-07-09

NUMBER OF SEQ ID NOS: 35

SOFTWARE: Patent to version 4.0

SEQ ID NO: 20

LENGTH: 150

TYPE: PRT

ORGANISM: Homo sapiens

US-09-844-799A-20

Query Match

Best Local Similarity: 100.00% Score: 790; DR: 10; Length: 150;

Matches: 149; Conserved: 19; Mismatches: 0; Indels: 0; Gaps: 0;

QY 1 MNIWLLAVTACHTACAPAVHITGVETGCTAVHTPTMAVIRKAWYRIQVSSSTNL 60
 ID 1 MNIWLLAVTACHTACAPAVHITGVETGCTAVHTPTMAVIRKAWYRIQVSSSTNL 60
 QY 61 PAAITVLEKEEVEVVEKVEVVEKVEVVEKVEVVEKVEVVEKVEVVEKVEVVEK 120
 ID 61 PAAITVLEKEEVEVVEKVEVVEKVEVVEKVEVVEKVEVVEKVEVVEKVEVVEK 120
 QY 121 NKKLSSEKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKK 150
 ID 121 NKKLSSEKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKK 150

RESULT 3

US-09-844-799A-13

Sequence 13, Application US/0904799A

Patent No. US2002006710A1

GENERAL INFORMATION:

APPLICANT: Laidlaw, David

APPLICANT: Laidlaw, David

TITLE OF INVENTION: Method for Identifying Agents Which

FILE REFERENCE: 600/211,112, 602, and Treatment of Breast Cancer

CURRENT APPLICATION NUMBER: US/09/799A-799A

CURRENT FILING DATE: 2001-04-12

PRIOR APPLICATION NUMBER: 09/146,500

PRIOR FILING DATE: 1998-09-04

NUMBER OF SEQ ID NOS: 24

SOFTWARE: Patent to version 4.0

SEQ ID NO: 13

LENGTH: 150

TYPE: PRT

ORGANISM: Homo sapiens

US-09-844-799A-13

Query Match: 100.00% Score: 790; DR: 10; Length: 150;
 Best Local Similarity: 100.00% Score: 790; DR: 10; Length: 150;
 Matches: 149; Conserved: 19; Mismatches: 0; Indels: 0; Gaps: 0;

QY 1 MNIWLLAVTACHTACAPAVHITGVETGCTAVHTPTMAVIRKAWYRIQVSSSTNL 60

ID 1 MNIWLLAVTACHTACAPAVHITGVETGCTAVHTPTMAVIRKAWYRIQVSSSTNL 60

QY 61 PAAITVLEKEEVEVVEKVEVVEKVEVVEKVEVVEKVEVVEKVEVVEKVEVVEK 120

ID 61 PAAITVLEKEEVEVVEKVEVVEKVEVVEKVEVVEKVEVVEKVEVVEKVEVVEK 120

QY 121 NKKLSSEKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKK 150

ID 121 NKKLSSEKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKK 150

RESULT 4

US-10-000-759A-9

Sequence 9, Application US/10030759A

Patent No. US2002014191A1

GENERAL INFORMATION:

APPLICANT: Andrew, David P.

APPLICANT: Zafar, Brian A.

APPLICANT: Zafar, Brian A.

TITLE OF INVENTION: ANTI-GBS-9-6 ANTIBODIES AND METHODS OF

FILE REFERENCE: 1855, 1064-003

CURRENT APPLICATION NUMBER: US/10/759A-759A

CURRENT FILING DATE: 2001-10-23

PRIOR APPLICATION NUMBER: US/09/752,752

PRIOR FILING DATE: 2000-05-10

PRIOR APPLICATION NUMBER: US 09/256,464

PRIOR FILING DATE: 1999-03-11

NUMBER OF SEQ ID NOS: 15

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO: 9

LENGTH: 150

TYPE: PRT

ORGANISM: Homo Sapiens

FEATURES: (104) ... (104)

OTHER INFORMATION: Xaa Met or Thr

US-10-000-759A-9

Query Match: 99.28% Score: 790; DR: 12; Length: 150;
 Best Local Similarity: 99.00% Score: 6,90-79; DR: 12; Length: 150;
 Matches: 149; Conserved: 19; Mismatches: 1; Indels: 0; Gaps: 0;

QY 1 MNIWLLAVTACHTACAPAVHITGVETGCTAVHTPTMAVIRKAWYRIQVSSSTNL 60
 ID 1 MNIWLLAVTACHTACAPAVHITGVETGCTAVHTPTMAVIRKAWYRIQVSSSTNL 60

QY 61 PAAITVLEKEEVEVVEKVEVVEKVEVVEKVEVVEKVEVVEKVEVVEKVEVVEK 120
 ID 61 PAAITVLEKEEVEVVEKVEVVEKVEVVEKVEVVEKVEVVEKVEVVEKVEVVEK 120

QY 121 NKKLSSEKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKK 150
 ID 121 NKKLSSEKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKKTSNKK 150

RESULT 5

US-09-799-777-25

Sequence 25, Application US/0907777

Patent No. US2002009124A1

GENERAL INFORMATION:

APPLICANT: Laidlaw, David

APPLICANT: Laidlaw, David

TITLE OF INVENTION: Method for Identifying Agents Which

FILE REFERENCE: 600/211,112, 602, and Treatment of Breast Cancer

CURRENT APPLICATION NUMBER: US/09/777-777

CURRENT FILING DATE: 2001-04-12

PRIOR APPLICATION NUMBER: 09/146,500

PRIOR FILING DATE: 1998-09-04

NUMBER OF SEQ ID NOS: 154

SOFTWARE: Patent to version 4.0

SEQ ID NO: 25

LENGTH: 150

TYPE: PRT

ORGANISM: Homo sapiens

CORRESPONDENCE ADDRESS:
 ADDRESSEE: INYTE PHARMACEUTICALS, INC.
 STREET: 3174 PORTER DRIVE
 CITY: PALO ALTO
 STATE: CALIFORNIA
 COUNTRY: USA
 ZIP: 94304

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC DOS/MS-DOS
 SOFTWARE: Word Perfect 6.1 for Windows/MS Dos 6.2

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US-09/779,777
 FILING DATE: 06-Mar-2001
 CLASSIFICATION: <unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US-09/002,485
 FILING DATE: <unknown>
 ATTORNEY/AGENT INFORMATION:
 NAME: BILLINGS, LOU J.
 REGISTRATION NUMBER: 36,749
 REFERENCE/DOCKET NUMBER: 11488.0420001
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (650) 855-0555
 TELEFAX: (650) 845-4166

INFORMATION FOR SEQ ID NO: 25:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 150 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear

IMMEDIATE SOURCE:
 LIBRARY: COLNOCIT9
 CLONE: 1634813
 SEQUENCE DESCRIPTION: SEQ ID NO: 25:

US-09-799-777-25

Query Match 97.6%; Score 777; DB 10; Length 150;
 Best Local Similarity 96.0%; Freq. No. 1.6e-77;
 Matches 147; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 MNELIACIVAGFLGMAPAVHIGVPEHOCIAVHYPIGMVLPRAVYPIQFVSSCNL 60
 DB 1 MNELIACIVAGFLGMAPAVHIGVPEHOCIAVHYPIGMVLPRAVYPIQFVSSCNL 60

QY 61 FAALTYLKEHREVCQHKSEHVSAMKIDARVAVVHHHTDTGQPAVAVVSSG 120
 DB 61 FAALTYLKEHREVCQHKSEHVSAMKIDARVAVVHHHTDTGQPAVAVVSSG 120

QY 121 NSKLSSTSTSTSTSSKAAVSLISANSG 150
 DB 121 NSKLSSTSTSTSTSSKAAVSLISANSG 150

QY 121 NSKLSSTSTSTSTSSKAAVSLISANSG 150
 DB 121 NSKLSSTSTSTSTSSKAAVSLISANSG 150

RESULT 6
 US-10-263-766-2
 Sequence 2, Application US/10263766
 Publication No. US20030073196A1
 GENERAL INFORMATION:
 APPLICANT: WEI, YING-FEI
 KREIDER, BRENT
 ROSEN, CRAIG
 TITLE OF INVENTION: CHEMOKINE BETA 15
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: STEER, KINSLEY, CONDETTIN & FOX P.L.L.C.
 STREET: 1100 NEW YORK AVENUE, SUITE 600
 CITY: WASHINGTON
 STATE: D.C.
 COUNTRY: US
 ZIP: 20005-4944
 COMPUTER READABLE FORM.

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10-263-766
 FILING DATE: 04-Oct-2002
 CLASSIFICATION: <unknown>

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US-09/074,460
 FILING DATE: <unknown>
 ATTORNEY/AGENT INFORMATION:
 NAME: STEER, KINSLEY, CONDETTIN & FOX P.L.L.C.
 REGISTRATION NUMBER: 36,688
 REFERENCE/DOCKET NUMBER: 11488.0420001
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-371-2600
 TELEFAX: 202-371-2540

INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 149 amino acids
 TYPE: amino acid
 TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 US-10-263-766-2

Query Match 97.4%; Score 775.5; DB 9; Length 149;
 Best Local Similarity 96.7%; Freq. No. 2.6e-77;
 Matches 148; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 MNELIACIVAGFLGMAPAVHIGVPEHOCIAVHYPIGMVLPRAVYPIQFVSSCNL 60
 DB 1 MNELIACIVAGFLGMAPAVHIGVPEHOCIAVHYPIGMVLPRAVYPIQFVSSCNL 60

QY 61 FAALTYLKEHREVCQHKSEHVSAMKIDARVAVVHHHTDTGQPAVAVVSSG 120
 DB 61 FAALTYLKEHREVCQHKSEHVSAMKIDARVAVVHHHTDTGQPAVAVVSSG 119

QY 121 NSKLSSTSTSTSTSSKAAVSLISANSG 150
 DB 120 NSKLSSTSTSTSTSSKAAVSLISANSG 146

RESULT 7
 US-09-372-162-2
 Sequence 2, Application US-09372162
 Patent No. US20020019033A1
 GENERAL INFORMATION:
 APPLICANT: WEI, YING-FEI
 KREIDER, BRENT
 ROSEN, CRAIG
 TITLE OF INVENTION: CHEMOKINE BETA 15
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: STEER, KINSLEY, CONDETTIN & FOX P.L.L.C.
 STREET: 1100 NEW YORK AVENUE, SUITE 600
 CITY: WASHINGTON
 STATE: D.C.
 COUNTRY: US
 ZIP: 20005-4944
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US-09/372-162
 FILING DATE: 19-Mar-1999
 CLASSIFICATION: <unknown>
 PRIOR APPLICATION DATA:

Wed May, 7 14:15:59 2003

1	PRIOR FILING DATE: 1997-10-17
2	PRIOR APPLICATION NUMBER: 60/060297
3	PRIOR FILING DATE: 1997-10-17
4	PRIOR APPLICATION NUMBER: 60/062814
5	PRIOR FILING DATE: 1997-10-24
6	PRIOR APPLICATION NUMBER: 60/062816
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61	PRIOR FILING DATE: 1998-02-27
62	PRIOR APPLICATION NUMBER: 60/079728
63	PRIOR FILING DATE: 1998-03-27

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4	PRIOR FILING DATE: 1998-04-07
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70	PRIOR FILING DATE: 1998-06-24
71	PRIOR APPLICATION NUMBER: 60/090866
72	PRIOR FILING DATE: 1998-06-26
73	PRIOR APPLICATION NUMBER: 60/091366



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[illegible]

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?      REGISTRATION NUMBER: 33,954
?      REFERENCE SEQUENCE NUMBER: PF-0063 US
?      TELECOMMUNICATION INFORMATION:
?      TELEPHONE: 415-855-0555
?      TELEFAX: 415-852-0195
?      INFORMATION FOR SEQ ID NO: 2:
?      SEQUENCE CHARACTERISTICS:
?      LENGTH: 93 amino acids
?      TYPE: amino acid
?      STRANDEDNESS: single
?      TOPOLOGY: linear
?      MOLECULE TYPE: pepptide
?      IMMEDIATE SOURCE:
?      LIBRARY: Prostrate
?      CLONE: 836820
?      US-08-683-682-2

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	Query Match	14.1%	Score 112	DB 2	Length 93
	Best Local Similarity	34.5%	Pred. No. 1.7e-06		
	Matches	30	Conservative 13	Mismatches 14	Indels 10
					Gaps 4
Q7	5 LLAIVAGTSGAAMFVNHGQVFETGLIAY	FFLEWMAVIFFAWLYTHLTVNSGQNF	PAA	63	
Db	16 IIAALSLINHGDT---ATKSESLIETRTPEYSKHLW	-----TWKSELETSNCGRAV		61	
Q7	64 FYILPKHKEVACNSPKSEVDGAMKLL		90		
Db	62 IF-IIRKSRKVLTPHPRKRWVYFYSLL		87		

RESULT 6
 US-08-945-772-2
 : Sequence 2, Application US/08936772
 : Patent No. 6015883
 :
 : GENERAL INFORMATION:
 : APPLICANT: Hawaiian, Phillip R.
 : APPLICANT: Bandman, Olga
 : APPLICANT: Murty, Lynn E.
 : TITLE OF INVENTION: NOVEL PANTHS HOMOLOG FROM PROSTATE
 : NUMBER OF SEQUENCES: 5
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Incyte Pharmaceuticals, Inc.
 : STREET: 3174 Porter Drive
 : CITY: Palo Alto
 : STATE: CA
 : COUNTRY: U.S.
 : Zip: 94304
 :
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Diskette
 : COMPUTER: IBM Compatible
 : OPERATING SYSTEM: DOS
 : SOFTWARE: FASTSEQ Version 1.5
 :
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: 08/534,682
 : FILING DATE:
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: 08/534,682
 : FILING DATE:
 : ATTORNEY/AGENT INFORMATION:
 : NAME: Luther, Barbara J
 : REGISTRATION NUMBER: 33,954
 : REFERENCE/DOCKET NUMBER: PF-0063 US
 : TELECOMMUNICATION INFORMATION:
 : TELEPHONE: 415-855-0555
 : TELEFAX: 415-852-0195
 : INFORMATION FOR SEQ ID NO: 2:
 : SEQUENCE CHARACTERISTICS:
 : LENGTH: 93 amino acids
 : TYPE: amino acid
 : STRANDEDNESS: single
 : TOPOLOGY: linear
 : MOLECULE TYPE: peptide
 : IMMEDIATE SOURCE:

; COUNTRY: USA
 ; ZIP: 02140
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: floppy disk
 ;

TELEPHONE: 202-371-2800
TELEFAX: 202-371-2640
INFORMATION FOR SEQ ID NO: 3

GenCore version 5.1.4-p5_4578
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1M protein - protein search, using SW model

Run on: May 7, 2003, 10:25:24 : Search time 12 seconds

(without alignments)
518,454 Million cell updates/sec

Title: US-10-039-659-4

Perfect score: 796

Sequence: 1 MRLRLAAGAAWATLAAWAA.....NLSSEKAAVSLLSANSGL 150

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 112992 seqs, 1176228 residues

Total number of hits satisfying chosen parameters: 112992

Minimum DB seq length: 0

Maximum ip seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : SwissProt_40*

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match	Length	ID	ID	Description
1	796	100.0	150	1	SV25_HUMAN	015444 homo sapien
2	316	39.7	144	1	SV25_MOUSE	015903 mus muscu
3	115	14.4	133	1	SV21_MOUSE	009006 mus muscu
4	112	14.1	94	1	SV26_HUMAN	072528 homo sapien
5	107	13.4	122	1	SV06_MOUSE	011670 mus muscu
6	104.5	13.0	134	1	SV01_HUMAN	006065 homo sapien
7	102	12.8	127	1	SV28_HUMAN	006073 homo sapien
8	97	12.2	97	1	SV20_HUMAN	006069 mus muscu
9	96	12.1	120	1	SV27_MOUSE	002180 mus muscu
10	94	11.8	96	1	SV20_FAT	007684 ratu
11	93.5	11.7	119	1	SV24_HUMAN	009175 homo sapien
12	93	11.7	116	1	SV06_MOUSE	007784 mus muscu
13	91.5	11.5	120	1	SV23_HUMAN	015473 homo sapien
14	88.5	11.1	120	1	SV16_HUMAN	015467 h small ind
15	86.5	10.9	91	1	SV05_HUMAN	011609 mus muscu
16	85.5	10.7	92	1	SV04_MOUSE	005997 mus muscu
17	85	10.7	94	1	SV17_HUMAN	005997 mus muscu
18	84	10.6	130	1	SV28_MOUSE	001112 mus muscu
19	83.5	10.5	97	1	SV04_HUMAN	015167 homo sapien
20	84	10.4	114	1	SV01_FAT	015172 ratu
21	84	10.4	103	1	SV01_FAT	005145 ratu
22	81.5	10.2	112	1	SV15_HUMAN	007669 homo sapien
23	81	10.2	96	1	SV20_HUMAN	007656 homo sapien
24	79.5	10.1	91	1	SV05_FAT	007673 fat
25	79.5	10.0	91	1	SV05_MOUSE	007682 mus muscu
26	79	9.9	92	1	SV03_FAT	007625 fatu
27	78.5	9.9	114	1	SV01_MOUSE	007692 mus muscu
28	78.5	9.9	119	1	SV24_MOUSE	007692 mus muscu
29	78	9.8	149	1	SV27_MOUSE	007692 mus muscu
30	77.5	9.7	91	1	SV05_HUMAN	007692 mus muscu
31	77	9.7	94	1	SV02_KSHV	007692 mus muscu
32	76.5	9.6	95	1	SV01_HUMAN	007692 mus muscu
33	75.5	9.5	89	1	SV18_HUMAN	007692 mus muscu

34	75.5	9.5	98	1	SV19_HUMAN	007692 mus muscu
35	75.5	9.5	112	1	SV27_HUMAN	007692 mus muscu
36	75.5	9.5	135	1	SV01_MOUSE	007692 mus muscu
37	75.5	9.5	573	1	SV01_YEAST	007692 mus muscu
38	75	9.4	590	1	SV01_YEAST	007692 mus muscu
39	74.5	9.4	590	1	SV04_FAT	007692 mus muscu
40	74	9.3	751	1	SV02_FAT	007692 mus muscu
41	71	9.2	1134	1	SV01_MOUSE	007692 mus muscu
42	72.5	9.2	93	1	SV14_HUMAN	007692 mus muscu
43	73.5	9.2	188	1	SV16_MOUSE	007692 mus muscu
44	73	9.2	148	1	SV02_FAT	007692 mus muscu
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COMMENTS

RESULT 1

SV25_HUMAN

ID: 015444; Q96K17;

DT: 15-JUL-1998 (Ref. 36, Created)

DI: 15-JUL-1998 (Ref. 36, Last sequence update)

RI: 15-JUN-2002 (Ref. 41, Last annotation update)

DE: Small, inducible, cytokine A25 precursor (US95) (chemokine TRK)

OE: (Thymus-expressed chemokine).

GN: SCYA25 OR TRK.

OS: Homo sapiens (human).

OC: Mammalia; Eukaryota; Chordata; Vertebrata; Euteleostomi;

OC: Mammalia; Eukaryota; Primates; Catarrhini; Hominoidea; Homo;

OX: NCBI_Taxid=9606;

RA:

RE: PRESENTED FROM N.A. (1997FORM 2).

RE: MEDLINE 92429775; PubMed 9285413;

SA: Vignat A.P., Flannery D.J., Medlock J.A., Foster J.S., Singh K.P.,

PA: Herson S., Copeland N.G., Gillett D., Jenkins N.A., Baron R.P.,

RA: Zlotnik A.;

RT: "TRK": a novel, or chemokine specifically expressed by thymic

deutonic cells and potentially involved in T cell development."

RI: Immunity 7:291-401(1997).

RL:

RE: IMMUNITY FROM N.A. (1997FORM 2).

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This SWISS-PROT entry is very short. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL consortium. The European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is not in any way modified and this statement is not removed. Usage by and for commercial

Submitted (act 1996) to the Embryonic Stem Cell Initiative.
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RA Fooking N., Campbell N.A., Gilbert J., Morgan N., Abrams J.,
 RA Keshavapathy P., Smith K., Mathabath T., Vicari A.P., Stachuk A.,
 RA "Identification of a novel chemokine (CCL20), which binds CCR6
 RA (CCL20)".
 RA J. Biol. Chem. 276:22413-22424 (2001).
 RA [12]
 RA SEQUENCE FROM N.A. AND REFERENCE INFORMATION:
 RA MEDLINE 20442408; PubMed 10975800.
 RA Pan J., Kunkel F.J., Giese T., Lippman N., Lantieri P., Brodeur R.,
 RA Victoria M.A., Gonzalez M., Pichler R., Miller D.,
 RA "A novel chemokine ligand for CCR6 and CCR4 expressed by epithelial
 RA cells in mucosal tissues".
 RA J. Immunol. 163:2943-2949 (2000).
 RA [13]
 RA SEQUENCE FROM N.A.
 RA Zhang W., He L., Yuan Z., Wan T., Cao X.,
 RA "A novel CCR chemokine homology with CCR6".
 RA Submitted (08/1999) to the EMBL/GenBank/DBJ databases.
 RA [14]
 RA POSTION: CHEMOKINE ACTIVITY FOUR RESIDUE CCA, CCR1-CELLS AND
 RA MOBILIZATION IN A TISSUE DEPENDENT MANNER.
 RA [15]
 RA TISSUE SPECIFICITY: DEPENDENTLY EXPRESSED BY EPITHELIAL CELLS
 RA OF DIVERSE TISSUES INCLUDING NORMAL AND PATHOLOGICAL COLON,
 RA SALIVARY GLAND, MAMMARY GLAND, TRACHEA AND RECTUM. ALSO FOUND IN
 RA PERITONEAL FLUID, LIVER, THYROID, THYROIDECTOMY SPECIMENS, IN
 RA STOMACH AND NORMAL SKIN.
 RA [16]
 RA SIMILARITY: BELONGS TO THE INTERLEUKIN BETA FAMILY (SMALL CYTOKINE
 RA C) (CHEMOKINE C).
 RA [17]
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 RA between the Swiss Institute of Bioinformatics and the EMBL outstation -
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 RA use by non-profit institutions as long as its content is in no way
 RA modified and this statement is not removed. Usage by and for commercial
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 RA or send an email to license@isb.ch).

RA [18]
 RA SEQUENCE FROM N.A. (LAST IS E-BOX) AND CHARACTERIZATION:
 RA TISSUE-THYMUS:
 RA MEDLINE 95677268; PubMed 9662452;
 RA Varola R., Zaballos A., Gutierrez J., Martin P., Renard F.,
 RA Albar J.P., Adedoyin G., Marquez G.,
 RA "Characterization of the T cell chemokine receptor 6 and its specific ligand
 RA MIP-1alpha".
 RA J. Biol. Chem. 274:18619-18624 (1999).
 RA [19]
 RA SEQUENCE FROM N.A. ALTERNATIVE SPLICING, AND SEQUENCE OF N-TERMINUS:
 RA TISSUE: Liver;
 RA MEDLINE 99161443; PubMed 10664080;
 RA Tanaka Y., Imai T., Baba M., Ishikawa T., Ishida M., Nomiya H.,
 RA Yoshino O.,
 RA "Selective expression of liver and testis-specific chemokine
 RA (LARC) in intestinal epithelium in mice and humans".
 RA J. Immunol. 256:633-642 (1999).
 RA [20]
 RA FUNCTION: CHEMOKINE (A-136) THAT ATTRACTS MONOCYTES AND,
 RA SLIGHTLY, NEUTROPHILS, BUT NOT LYMPHOCYTES (BY SIMILARITY). MAY BE
 RA INVOLVED IN PERMEABILITY AND TIGHTNESS OF THE BLOOD VESSEL-TISSUE
 RA BY ATTRACTING LYMPHOCYTES AND HEMOTIC CELLS TOWARDS EPITHELIAL
 RA CELLS, BINDS TO CCR6.
 RA [21]
 RA SUBCELLULAR LOCATION: Secreted.
 RA [22]
 RA ALTERNATIVE PRODUCTS: 2 ISOFORMS: A LONG FORM (SHOWN HERE) AND A
 RA SHORT FORM. ARE PRODUCED BY ALTERNATIVE SPLICING.
 RA [23]
 RA TISSUE SPECIFICITY: PRESENTLY EXPRESSED IN THE SMALL INTESTINE,
 RA COLON AND ADIPOLX. ALSO FOUND IN THYROID, STEREO, UMBILIC AND
 RA LIVER. THE LONG FORM MIGHT BE DOMINANT IN INTESTINAL, AND THE SHORT
 RA FORM IN LYMPHOID TISSUES.
 RA [24]
 RA IDENTIFICATION: CHEMOKINE (A-136) IS ALPHABETICALLY
 RA 1. IEN GAMMA ALONE SHOWN NO EFFECT, BUT POTENTIATED THE EFFECT OF
 RA 1. SIMILARITY: BELONGS TO THE INTERLEUKIN BETA FAMILY (SMALL CYTOKINE
 RA C) (CHEMOKINE C).
 RA [25]
 RA THIS SWISS PROTEIN ENTRY IS COPYRIGHTED. It is produced through a collaboration
 RA between the Swiss Institute of Bioinformatics and the EMBL outstation -
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 RA modified and this statement is not removed. Usage by and for commercial
 RA entities requires a license agreement (see <http://www.isb.ch/seq/seq.htm>;
 RA or send an email to license@isb.ch).

FI CARBOHYD 115 115 N-LINKED (GLCNAC...),
 FI CONFLICT 61 61 A -> C (IN PPF 1)
 FI CONFLICT 73 73 F -> S (IN REF. 1; AA SEQUENCE).
 SO SEQUENCE 119 AA: 13133 MW: 60ACAGAG1731FR393 CP064;

Query Match
 Best local similarity 32.6%; Pred. No 0.0075;
 Matches 29: Conservative 13; Mismatches 34; Indels 13; Gaps 3;

QY 13 FLGAVAFVHTGC...VFEDCLAVHPRICWAVLPFAMVPT...GEVSGSCNIPALIF 66
 DB 13 FLGAVAFVHTGC...VFEDCLAVHPRICWAVLPFAMVPT...GEVSGSCNIPALIF 65
 QY 67 LKKNHVCNPPSPVPPVPAKTTIDARK 95
 DB 67 LKKNHVCNPPSPVPPVPAKTTIDARK 94

RESULT 12

SY06_MOUSE
 ID SY06_MOUSE STANDARD: PRT: 116 AA.

AC P27784;
 DT 01-AUG-1992 (rel. 23, Created)
 DT 01-AUG-1992 (rel. 23, Last sequence update)
 DT 15-JUN-2002 (rel. 41, Last annotation update)
 DE Small inducible cytokine A6 precursor (CCL6) (C10 protein).
 GN SCYA6 OR C10.
 OS Mus musculus (Mouse).
 OC Eukaryota; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OC NCBI_TaxID=10090;

FN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=CBA/T. TISSUE=BONE MARROW;
 RX MEDLINE=91370683; PubMed=1832565;
 RA Chlosky A., R-1371 M.S., Pysrowsky M.R.;
 FT "Novel expression pattern of a new member of the MIP-1 family of
 cytokine-like genes"
 RL Cell Regul. 9:409-413(1993)
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- TISSUE SPECIFICITY: EXPRESSED IN MYELOPOIETIC BONE MARROW
 CC CULTURES STIMULATED BY GM-CSF.
 CC -1- INDUCTION: ASSOCIATED WITH STIMULI THAT PROMOTE MYELOID
 CC DIFFERENTIATION.

CC -1- SIMILARITY: BELONGS TO THE INTERFERON BETA FAMILY (SMALL CYTOKINE
 C-C) (CHEMOKINE CC).

CC This SWISS-Prot entry is a hybrid: it is produced through a collaboration
 between the Swiss Institute of Bioinformatics and the EMBL outstation -
 the European Bioinformatics Institute. There are no restrictions on its
 use by non-profit institutions as long as its content is in no way
 modified and this statement is not removed, usage by and for commercial
 entities requires a license agreement (See <http://www.ebi.ac.uk/submit/submit.html>)
 or send an email to license@ebi.ac.uk.

CC EMBL: M68004, AAA37329.1;
 CC DR HSSE, P55773; J021.
 CC DR MGS, M0136263; J021.
 CC DR InterPro: IPR000827; CC: chemkine-sm1.
 CC InterPro: IPR000827; CC: chemkine-sm1.
 CC DR Pfam: PF00048; IIR: 1.
 CC DR SMART: SM00199; SCY: 1.
 CC DR PROSITE: PS00472; SMALL_CYTOKINES_CC: 1
 CC KW Cytokine; Chemotaxis; Signal.
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 CC FT DISULFID

GenCore version 5.1.4-p5.4578
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OM protein - protein search, using SW model

Run on: May 7, 2003, 10:35:04 : Search time 84 seconds
(without alignments) 367.541 Million cell updates/sec

Title: US-10-039-659-4
Sequence: 1 MRLVLAIVVAIIVAAVAA NPTSSSFNVSLIISANSST 153

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 671580 seqs, 206047115 residues
Total number of hits satisfying chosen parameters: 671580

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 08
Maximum Match 1008
Listing first 45 summaries

Database :
1: SP archaea: *
2: SP bacteria: *
3: SP fungi: *
4: SP human: *
5: SP invertebrate: *
6: SP mammal: *
7: SP rhiz: *
8: SP rodent: *
9: SP spirochete: *
10: SP plant: *
11: SP protist: *
12: SP virus: *
13: SP vertebrate: *
14: SP unclassified: *
15: SP viroin: *
16: SP bacteriophage: *
17: SP archaea: *

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	320	40.2	144	11	Q9QYV6
2	121	15.2	132	11	Q91V84
3	102	12.9	116	11	Q91V84
4	98	12.3	135	11	Q91V84
5	95	11.9	116	11	Q91V84
6	93	11.7	93	13	Q91V84
7	91.5	11.5	120	11	Q91V84
8	91	11.4	91	13	Q91V84
9	90.5	11.4	91	11	Q91V84
10	89.5	11.2	131	11	Q91V84
11	89.5	11.2	131	11	Q91V84
12	88	11.1	89	13	Q91V84
13	87.5	11.0	100	13	Q91V84
14	87	10.9	97	6	Q91V84
15	87	10.9	100	13	Q91V84
16	86	10.8	118	12	Q91V84

17	84.5	10.6	99	6	Q95N01
18	83	10.4	115	12	Q95N01
19	83	10.4	135	11	Q91V84
20	81	10.2	186	16	Q98257
21	80.5	10.1	96	6	Q98257
22	80.5	10.1	100	13	Q91V84
23	80.5	10.1	745	12	Q98257
24	80	10.1	371	12	Q98257
25	80	10.1	1811	12	Q98257
26	79.5	10.0	92	6	Q98257
27	79.5	10.0	100	13	Q91V84
28	79.5	10.0	100	13	Q91V84
29	79	9.9	100	6	Q91V84
30	79	9.9	100	13	Q91V84
31	79	9.9	151	17	Q91V84
32	78.5	9.9	97	11	Q92318
33	78	9.8	371	12	Q98257
34	78	9.8	3898	12	Q92364
35	77	9.7	381	12	Q92364
36	77	9.7	745	12	Q98257
37	77	9.7	3897	12	Q98257
38	76.5	9.6	93	13	Q98257
39	76.5	9.6	100	13	Q91V84
40	76.5	9.6	487	12	Q91V84
41	76	9.5	312	6	Q91V84
42	76	9.5	3898	12	Q98257
43	76	9.5	3898	12	Q98257
44	75.5	9.5	395	11	Q91V84
45	75	9.4	1172	12	Q95226

ALIGNMENTS

RESULT 1

Q9QYV6 PRELIMINARY: PRT: 144 AA.
AC Q9QYV6;
DT 01-MAY-2000 (TEMBREL, 13, Created)
DT 01-MAY-2000 (TEMBREL, 13, Last sequence update)
DT 01-DEC-2001 (TEMBREL, 19, Last annotation update)
DE Thymus-expressed chemokine precursor.
CR SCV25 OR TECK.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
OX NCBI_Taxid=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX XREF:EMBL:U00000; PubMed=10602049;
PY Wurtel M.A., Philippe J.M., Nguyen C., Victorero G., Freeman T.,
RA Wooding P., Mazek A., Mallet M.G., Maltissen M., Jordan B.R.,
RA Maltissen B., Carrier A., Mallet P.;
RT "The chemokine TECK is expressed by thymic and intestinal epithelial
RT cells and attracts double and single-positive thymocytes expressing
RT the TECK receptor CCR9.";
RL Eur. J. Immunol. 30:263-271(2000).
ER EMBL: AJ249480; CAB55752.1;
EZ M57, M57 199449, Scv25.
DR InterPro: IPR001911; Chemokine_118.
DR SMART: SM00199; SCV, 1.
KW Signal.
FT SIGNAL
FT CHAIN
FT CDS
SO SEQUENCE 144 AA, 16732 MW, CEC124R22084408 CRC64;

Query Match 40.2%, Score 320, DB 11, Length 144;
Best local similarity 48.6%, Pct. Id. 6.5% 27;
Matches 69; Conservative 16; Mismatches 45; Indels 12; Gaps 4;

QY 1 MRLVLAIVVAIIVAAVAA NPTSSSFNVSLIISANSST 153
DB 1 MRLVLAIVVAIIVAAVAA NPTSSSFNVSLIISANSST 153

RA Sasaki H., Sato K., Schenbach C., Soga T., Shibata Y., Storch K.-P.,
 RA Suzuki H., Toyooka K., Wang K.H., Wetz C., Whitaker C., Wilming L.,
 RA Wyszynski-Berle A., Yoshida K., Hasegawa Y., Kawai H., Kohlsuki S.,
 RA Hayashizaki Y.,
 RA "Functional annotation of a full-length mouse cDNA collection,"
 RL Nature 409:685-690(2001).
 RN [4]
 RP SEQUENCE FROM N.A.
 RC TISSUE=THYMUS GLAND,
 RA Strausberg R.,
 RL Submit:03 (Apr-2002), the ENBL, Genbank/EMBL databases.
 DE EMBL: AJ242587, CAB52261,
 DE EMBL: AF124572, AA054522,
 DE EMBL: AF125571, AAD56601,
 DE EMBL: AK007663, BAB25171,
 DE EMBL: BC028505, AAH28505.1,
 DE HSSP: Q98157, ICM9,
 DE M3P: M3P1320030, Scy17,
 DE InterPro: IP000827, C2-Chemokine_sm,
 DE InterPro: IP001811, Chemokine_IL8,
 DE Pfam: PF00044, IL8_1,
 DE SMART: SM00199, SCY_1,
 DE ProSite: PS00472, SMALL_CITOKINES_00, 1,
 DE Signal,
 KW SIGNAL,
 FT SIGNAL 1 20
 FT CHAIN 21 93
 FT SEQUENCE 93 AA; 10466 MW, 66FCU4FEDEECCE CMC64;
 S0
 Query Match 11.2%; Score 89.5; DB 11; Length 93;
 Best Local Similarity 28.3%; Pred. No. 0.043;
 Matches 25; Conservative 20; Mismatches 37; Indels 9; Gaps 4;
 QY 1 MNMLTAVAGFLGAMADVAHVGVEEDCLAVHYPIGMVLRAMVYFTEGVSTG 48
 DB 4 LQMLLAAVLITGFIQHAARATVNGRECCLDYRK--CAITIKLVSW-----YKTSVRC 57
 QY 59 NLPAAIFVLPFHPKVCCNPGSYVGFAMKLE 90
 DB 58 SPDAIVF LQVSEILCAHPTFEVKKALFLV 129
 DB 58 SPDAIVF LQVSEILCAHPTFEVKKALFLV 88
 RESULT 11
 Q9R043 PRELIMINARY; PRT; 131 AA.
 AC Q9R043;
 DT 01-MAY-2000 (TREMBLrel. 13, Created)
 DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
 DT 01-MAY-2000 (TREMBLrel. 20, Last annotation update)
 DE CC Chemokine ABCD-2.
 GN SCY17 OR ABCD-2.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=LIVER;
 RA MEDLINE=99438049; PubMed=10508268;
 RA Schaniel C., Salusto F., Ruedl C., Sideras P., Melchers F.,
 RA Kolln A.G.,
 RA "Three chemokines with potential functions in T lymphocyte-independent
 RT and -dependent B lymphocyte stimulation,"
 RL Eur. J. Immunol. 29:2921-2927(1999).
 DE EMBL: AF125570, AAD56601,
 DE HSSP: Q98157, ICM9,
 DE M3P: M3P1320030, Scy17,
 DE InterPro: IP000827, C2-Chemokine_sm,
 DE InterPro: IP001811, Chemokine_IL8,
 DE Pfam: PF00044, IL8_1,
 DE SMART: SM00199, SCY_1,
 DE ProSite: PS00472, SMALL_CITOKINES_00, 1,
 DE Signal,
 KW SIGNAL,
 FT SIGNAL 1 20
 FT CHAIN 21 93
 FT SEQUENCE 93 AA; 10466 MW, 66FCU4FEDEECCE CMC64;
 S0

Query Match 11.2%; Score 89.5; DB 11; Length 131;
 Best Local Similarity 28.3%; Pred. No. 0.065;
 Matches 26; Conservative 20; Mismatches 37; Indels 9; Gaps 4;
 QY 1 MNMLTAVAGFLGAMADVAHVGVEEDCLAVHYPIGMVLRAMVYFTEGVSTG 48
 DB 42 LQMLLAAVLITGFIQHAARATVNGRECCLDYRK--CAITIKLVSW-----YKTSVRC 95
 QY 59 NLPAAIFVLPFHPKVCCNPGSYVGFAMKLE 90
 DB 46 SPDAIVF LQVSEILCAHPTFEVKKALFLV 129
 DB 46 SPDAIVF LQVSEILCAHPTFEVKKALFLV 88
 RESULT 12
 Q918EO PRELIMINARY; PRT; 89 AA.
 AC Q918EO;
 DT 01-MAY-2000 (TREMBLrel. 15, Created)
 DT 01-MAY-2000 (TREMBLrel. 15, Last sequence update)
 DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
 DE CC Chemokine K203 Precursor.
 GN K203.
 OS Gallus gallus (Chicken).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
 OC Gallus.
 OX NCBI_TaxID=9031;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC MEDLINE=20170441; PubMed=10704244;
 RA Sick C., Schneider K., Staeheli P., Welting K.C.,
 RA "Novel chemokines and CC chemokines,"
 DE EMBL: Y18632, CAB7556.1,
 DE EMBL: Y18632, CAB7556.1,
 DE HSSP: P13236, IHOM,
 DE InterPro: IP001811, Chemokine_IL8,
 DE Pfam: PF00044, IL8_1,
 DE SMART: SM00199, SCY_1,
 DE Signal,
 KW SIGNAL,
 FT SIGNAL 1 21
 FT CHAIN 22 89
 FT SEQUENCE 89 AA; 9896 MW, 6FA2EA7A4950CA75 CRC64;
 S0
 Query Match 11.1%; Score 88; DB 13; Length 89;
 Best Local Similarity 30.5%; Pred. No. 0.059;
 Matches 29; Conservative 23; Mismatches 23; Indels 28; Gaps 3;
 QY 5 LIAVAGFLGAMADVAHVGVEEDCLAVHYPIGMVLRAMVYFTEGVSTG 48
 DB 7 VLALLASF-----CSRASSAPVGPVPTCTTYITRKIPRLIQRHS 50
 QY 54 VSGSCNLPATFVPPPVGVCCPGPVGVYPMK 88
 DB 51 TSTSCSPATIF--ITKREVCANPSUPWVQKVLQ 84
 RESULT 13
 Q9PTS4 PRELIMINARY; PRT; 100 AA.
 AC Q9PTS4;
 DT 01-MAY-2000 (TREMBLrel. 13, Created)
 DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
 DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
 DE CC Chemokine CK-1.
 OS Onchorynchus chrysops (Coho salmon).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Macropodus; Euteleostei;
 OC Proteomorphopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
 OX NCBI_TaxID=8019;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC MEDLINE=99113453; PubMed=9914924;
 S0

